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## Amendments to the claims

## 1. (Currently amended)

A vibrating screen for separating fine materials from coarse materials, comprising;

a frame having a vertical tall end and a vertical short end;

a screen box having an upper end, a lower end, a top screen mounted therein, and an inclination from a horizontal plane;

a first pair of springs affixed to said tall end and said upper end for supporting said upper end over said tall end;

a second pair of springs affixed to said short end and said lower end for supporting said lower end over said short end;

an eccentric shaft affixed to said screen box and a drive means affixed to said frame and said eccentric shaft for rotating said eccentric shaft and for imparting a reciprocal movement to said screen box, and

a loading pan affixed to said upper end of said screen box; said loading pan having a plated bottom surface extending substantially in a same plane as said top screen, and a central region set substantially vertically in line with said first pair of springs.

## 2. (Cancelled)

## 3. (Currently amended)

The vibrating screen as claimed in ~~claim 2~~ claim 1, wherein said loading pan is wider than said screen box, and has sloped sides forming a funnel on said upper end of said screen box.

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## 4. (Currently amended)

The vibrating screen as claimed in **claim 3**, wherein each of said sloped sides makes an angle of between  $120^{\circ}$  and  $150^{\circ}$  with ~~a side~~ an outside edge of said screen box

## 5. (Cancelled)

## 6. (Currently amended)

The vibrating screen as claimed in ~~claim 2~~ **claim 3**, wherein said loading pan is about 60% wider than said screen box.

## 7. (Currently amended)

The vibrating screen as claimed in **claim 1**, wherein each of said first and second pairs of springs ~~have~~ has torsion bushings therein and a pair of arms joining said torsion bushings and forming an acute angle there between; said acute angles in both said first and second pairs of springs pointing toward said lower end of said screen box.

## 8. (Original)

The vibrating screen as claimed in **claim 7**, wherein each of said pair of arms comprises an upper arm angled downward from said inclination of said screen box.

## 9. (Original)

The vibrating screen as claimed in **claim 7**, wherein said inclination of said screen box is between  $18^{\circ}$  and  $22^{\circ}$ , and said acute angle of said pair of arms in each of said springs is between  $45^{\circ}$  and  $90^{\circ}$ .

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**10. (Currently amended)**

A vibrating screen for separating fine materials from coarse materials, comprising;

a frame having a vertical tall end and a vertical short end;

a screen box having an upper end, a lower end, a top screen therein, and an inclination from a horizontal plane;

a first pair of springs affixed to said tall end and said upper end for supporting said upper end over said tall end;

a second pair of springs affixed to said short end and said lower end for supporting said lower end over said short end, and

an eccentric shaft affixed to said screen box and a drive means affixed to said frame and said eccentric shaft for rotating said eccentric shaft and for imparting a reciprocal movement to said screen box,

a loading pan affixed to said upper end of said screen box and having means for temporarily retaining a portion of a load of screenable material therein; and

each of said first and second pairs of springs having torsion bushings therein, and a pair of arms joining said torsion bushings and forming an acute angle there between; said acute angles in both said first and second pairs of springs pointing toward said lower end of said screen box.

**11. (Original)**

The vibrating screen as claimed in **claim 10**, wherein said inclination of said screen box is between  $18^{\circ}$  and  $22^{\circ}$ , and said acute angle of said pair of arms in each of said springs is between  $45^{\circ}$  and  $90^{\circ}$ .

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**12. (Currently amended)**

The vibrating screen as claimed in **claim 10**, ~~further comprising a loading pan affixed to said upper end of said screen box, and rigid structural members extending under said screen box and wherein said loading pan for maintaining said loading pan~~ has a plated bottom surface extending substantially in a same plane as said screen box top screen.

**13. (Original)**

The vibrating screen as claimed in **claim 12**, wherein said loading pan is wider than said screen box.

**14. (Currently amended)**

The vibrating screen as claimed in ~~claim 13~~ **claim 12**, wherein said means for temporarily retaining loading pan has comprises sloped sides forming a funnel on an upper end of said screen box.

**15. (Original)**

The vibrating screen as claimed in **claim 12**, wherein said loading pan has a central region set vertically in-line with an axis of said first pair of springs.

**16. (Currently amended)**

The vibrating screen as claimed in **claim 10**, ~~further comprising a loading pan affixed to said upper end of said screen box, wherein said loading pan having~~ has a plated bottom surface enclosed on three sides.

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**17. (Original)**

The vibrating screen as claimed in **claim 16**, wherein said plated bottom surface is inclined at a steeper angle than said top screen.

**18. (Original)**

The vibrating screen as claimed in **claim 14**, wherein said loading pan is 60% wider than said screen box.

**19 - 20. (Cancelled)****21. (New)**

A vibrating screen for separating fine materials from coarse materials, comprising;

a frame having a vertical tall end and a vertical short end;

a screen box having an upper end, a lower end, a top screen mounted therein, and an inclination from a horizontal plane;

a first pair of springs affixed to said tall end and said upper end for supporting said upper end over said tall end;

a second pair of springs affixed to said short end and said lower end for supporting said lower end over said short end;

an eccentric shaft affixed to said screen box and a drive means affixed to said frame and said eccentric shaft for rotating said eccentric shaft and for imparting a reciprocal movement to said screen box, and

a loading pan affixed to said upper end of said screen box; said loading pan being wider than said screen box.

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**22. (New)**

The vibrating screen as claimed in **claim 21**, wherein said loading pan is at least 50% wider than said screen box.

**23. (New)**

The vibrating screen as claimed in **claim 21**, wherein said loading pan has a plated bottom surface extending substantially in a same plane as said top screen in said screen box.

**24. (New)**

The vibrating screen as claimed in **claim 22** wherein said loading pan as a central region set vertically in line with said first pair of springs.